

CLAIMS

What is claimed is:

1. A method for transmitting information from a second node to a first node, comprising the steps of:
 - establishing a communication link between the first node and the second node;
 - allowing one or more data transactions transmitted on the communication link between the first node and the second node;
 - identifying a data stream of a data transaction being transmitted from the second node to the first node; and
 - stalling the transaction to insert the information into the data stream, thereby transmitting the information from the second node via the data stream to the first node;wherein the information is not part of the data transaction when the data transaction starts from the second node to the first node.
2. The method of claim 1 further comprising the step of running the first node and the second node at two different frequencies.
3. The method of claim 1 further comprising the step of including instructions in the information for the first node to perform a task.
4. The method of claim 3 wherein the task includes one or a combination of resending some data, removing the first node, removing a part of the first node,

- 3 restarting the first node, resetting the first node, notifying the first node,
4 authorizing the first node.
- 1 5. The method of claim 1 further comprising the step of sending the information in a
2 packet normally used for synchronizing the first node and the second node.
- 1 6. The method of claim 1 further comprising the step of sending the information in a
2 packet that is not counted as part of the data stream being transmitted from the
3 second node to the first node.
- 1 7. The method of claim 1 wherein the first node and the second node are selected
2 from a group consisting of a computer system, a network device, a microprocessor,
3 and an electronic chip.
- 1 8. The method of claim 1 further comprising the steps of saving the status of the
2 transaction at the time the transaction is stalled and resuming the transaction based
3 on the saved status.
- 1 9. A method for transmitting information from a second node to a first node,
2 comprising the steps of:
3 establishing a communication link between the first node and the second
4 node;
5 identifying a data transaction being transmitted from the second node via
6 the data link to the first node; the data transaction including a
7 header and a plurality of data pieces;

8 the first node, based on data in the header, counting the data pieces to
9 identify the end of the transaction;
10 stalling the data transaction to send a packet on the communication link to
11 the first node; the packet including the information; and
12 the first node counting the packet as not part of the data transaction.

1 10. The method of claim 9 further comprises the step of running the first node and the
2 second node at two different frequencies.

1 11. The method of claim 9 further comprises the step of including instructions in the
2 information for the first node to perform a task.

1 12. A system for transmitting information from a second node to a first node,
2 comprising:
3 a communication link between the first node and the second node;
4 one or more data transactions transmitted on the communication link
5 between the first node and the second node;
6 a data stream of a data transaction being transmitted from the second node
7 to the first node; and
8 means for stalling the transaction to insert the information into the data
9 stream, thereby transmitting the information from the second node
10 via the data stream to the first node;
11 wherein the information is not part of the data transaction when the data
12 transaction starts from the second node to the first node.

- 1 13. The system of claim 12 wherein the first node and the second node run at two
2 different frequencies.
- 1 14. The system of claim 12 wherein the information includes instructions for the first
2 node to perform a task.
- 1 15. The system of claim 14 wherein the task includes one or a combination of
2 resending some data, removing the first node, removing a part of the first node,
3 restarting the first node, resetting the first node, notifying the first node,
4 authorizing the first node.
- 1 16. The system of claim 12 wherein the information is sent in a packet normally used
2 for synchronizing the first node and the second node.
- 1 17. The system of claim 12 wherein the information is sent in a packet that is not
2 counted as part of the data stream being transmitted from the second node to the
3 first node.
- 1 18. The system of claim 12 wherein the first node and the second node are selected
2 from a group consisting of a computer system, a network device, a microprocessor,
3 and an electronic chip.
- 1 19. The system of claim 12 wherein the status of the transaction is saved at the time
2 the transaction is stalled and the transaction is resumed based on the saved status.

- 1 20. A system for transmitting information from a second node to a first node,
2 comprising:
3 a communication link between the first node and the second node;
4 a data transaction being transmitted from the second node via the
5 communication link to the first node; the data transaction including
6 a header and a plurality of data pieces;
7 means for the first node, based on data in the header, to count the data
8 pieces to identify the end of the transaction;
9 means for stalling the data transaction to send a packet on the
10 communication link to the first node; the packet including the
11 information; and
12 means for the first node to count the packet as not part of the data
13 transaction.
- 1 21. The system of claim 20 wherein the first node and the second node run at two
2 different frequencies.
- 1 22. The system of claim 20 wherein the information includes instructions for the first
2 node to perform a task.
- 1 23. A computer-readable medium embodying instructions for a computer to perform a
2 method for transmitting information from a second node to a first node, the
3 method comprising the steps of:
4 establishing a communication link between the first node and the second
5 node;

6 allowing one or more data transactions transmitted on the communication
7 link between the first node and the second node;
8 identifying a data stream of a data transaction being transmitted from the
9 second node to the first node; and
10 stalling the transaction to insert the information into the data stream,
11 thereby transmitting the information from the second node via the
12 data stream to the first node;
13 wherein the information is not part of the data transaction when the data
14 transaction starts from the second node to the first node.

- 1 24. A computer-readable medium embodying instructions for a computer to perform a
2 method for transmitting information from a second node to a first node, the
3 method comprising the steps of:
4 establishing a communication link between the first node and the second
5 node;
6 identifying a data transaction being transmitted from the second node via
7 the data link to the first node; the data transaction including a
8 header and a plurality of data pieces;
9 the first node, based on data in the header, counting the data pieces to
10 identify the end of the transaction;
11 stalling the data transaction to send a packet on the communication link to
12 the first node; the packet including the information; and
13 the first node counting the packet as not part of the data transaction.